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## Patent Claims

 An installation arrangement for an airconditioning system with a heating apparatus, in particular for motor vehicles, having

at least one housing in which air is fed in an at least partially predefined flow path, and

which has at least one heating apparatus and at least one actuating device, with the heating apparatus being arranged in a first flow path and the actuating device being arranged at least partially in a second flow path,

characterized in that

in at least one position the actuating device virtually completely brings about the flow through the heating apparatus.

- 2. The installation arrangement for an airconditioning system with a heating apparatus as claimed in claim 1, characterized in that
- the housing has at least one inlet and at least one outlet for the air.
- 3. The installation arrangement for an air-30 conditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that
- the heating apparatus is selected from a group of which heat 35 contains heating apparatuses exchangers, CO<sub>2</sub> heat pumps, heaters which use exhaust fuel heater, condensers, heat, qas heaters, electric heaters, stationary-mode heaters and the like.

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4. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that

the heating apparatus has a core which conducts heat and whose heat exchanger surface is formed by baffle plates which are arranged at a predefined angle to the main direction of extent of the core, in a heat-conducting fashion on its surface.

The installation arrangement for an air-conditioning system with a heating apparatus as:
 claimed in claim 4, characterized in that

at least part of the surface of the heatconducting core has a flow of air around it.

- 20 6. The installation arrangement for an airconditioning system with a heating apparatus as claimed in claim 5, characterized in that
- the cross section of the heat-conducting core is such that the flow of the air at least along part of the surface of the heat-conducting core is essentially laminar.
- 7. The installation arrangement for an air30 conditioning system with a heating apparatus as
  claimed in one of claims 4 to 6, characterized in
  that
- the cross sectional shape of the heat-conducting core is asymmetrical.
  - 8. The installation arrangement for an airconditioning system with a heating apparatus as

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claimed in one of claims 4 to 7, characterized in that

a free cross section through which some of the air which flows through the heating apparatus flows is formed between the heat-conducting core and an element which adjoins the heating apparatus and at least partially bounds the first flow path.

- The installation arrangement for an airconditioning system with a heating apparatus as
  claimed in one of claims 4 to 8, characterized in
  that
- a third flow path through which a heating medium flows is arranged within the heat-conducting core.
  - 10. The installation arrangement for an airconditioning system with a heating apparatus as claimed in claim 9, characterized in that

the heating medium is a fluid, preferably a gas, and is particularly preferably an exhaust gas of a combustion process.

- 25 11. The installation arrangement for an airconditioning system with a heating apparatus as claimed in claim 9 or 10, characterized in that
- the heating medium which flows through the heatconducting core brings about a temperature gradient across the cross section of the core.
- 12. The installation arrangement for an airconditioning system with a heating apparatus as
  claimed in one of claims 4 to 11, characterized in
  that

a temperature gradient of the heat-conducting core is at least partially parallel with a temperature

gradient of the air which flows through the heating apparatus.

- 13. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that
- the buffer plates of the heat exchanger surface
  have a basic shape which is selected from a group
  of shapes which contains squares, rectangles,
  circles, ellipses, polygons, combinations of the
  latter and the like.
- 15 14. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that
- the heating apparatus is arranged in a bypass duct.
- 15. The installation arrangement for an airconditioning system with a heating apparatus as 25 claimed in at least one of the preceding claims, characterized in that

the heating apparatus is arranged at a predefined distance from the external wall of the housing.

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16. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that

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the heat exchanger surface of the heating apparatus assumes a predefined angle to the longitudinal axis of the motor vehicle.

17. The installation arrangement for an airconditioning system with a heating apparatus as
claimed in at least one of the preceding claims,
characterized in that
at least one fan, in particular an electric fan,

which promotes the movement of air through the device within at least one flow path is provided in the housing.

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18. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that

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the air is fed directly and/or indirectly into the passenger compartment of a motor vehicle through the outlet.

- 20 19. The installation arrangement for an airconditioning system with a heating apparatus as
  claimed in at least one of the preceding claims,
  characterized in that
- the actuating device can be moved into at least two positions.
- 20. The installation arrangement for an airconditioning system with a heating apparatus as
  claimed in at least one of the preceding claims,
  characterized in that

the actuating device is infinitely adjustable, with the proportion of air which is fed through the heating apparatus and/or past the heating apparatus being changed and in particular closed-loop and/or open-loop controlled depending on the position.

21. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that

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- a second actuating device which essentially prevents a flow of air counter to the main direction of flow of the first flow path is arranged downstream of the heating apparatus in the first flow path.
- 22. The installation arrangement for an airconditioning system with a heating apparatus as claimed in claim 21, characterized in that

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the second actuating device is embodied in such a way that it is at least partially opened by the air flowing through the heating apparatus in the main direction of flow.

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- 23. The installation arrangement for an airconditioning system with a heating apparatus as claimed in claim 21 or 22, characterized in that
- 25 the second actuating device has a actuating element which at least partially counteracts an opening movement of the actuating device.
- 24. The installation arrangement for an air-30 conditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that
- the actuating devices are selected from a group of actuating devices which contains flaps, swinging flaps, segmented flaps, wing flaps, shutters, in particular iris shutters and the like.

25. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that

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- a device for filtering air, in particular in the region of the inlet is provided.
- 26. The installation arrangement for an airconditioning system with a heating apparatus as 10 claimed in at least one of the preceding claims, characterized in that
- an closed-loop or open-loop control device which performs closed-loop or open-loop control on, in. 15 particular, the quantity of air flowing through is provided on the at least one inlet and/or outlet for the air.
- 20 27. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that
- 25 the air is fed at least partially along a dividing wall adjoining an internal combustion engine, and in that at least one heating apparatus is arranged in particular in this region.
- 30 28. The installation arrangement for an airconditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that
- 35 the device has at least one sensor selected from a group of sensors which determine temperature, pressure, speed such as, the flow rate of a medium, or the position of a component.

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29. The installation arrangement for conditioning system with a heating apparatus as claimed in at least one of the preceding claims, characterized in that

the individual elements and/or assemblies of the device are arranged basically one behind the other in the flow path, in which case in particular at least one element and/or one assembly can be removed from the main flow path of the air by means of a bypass.